

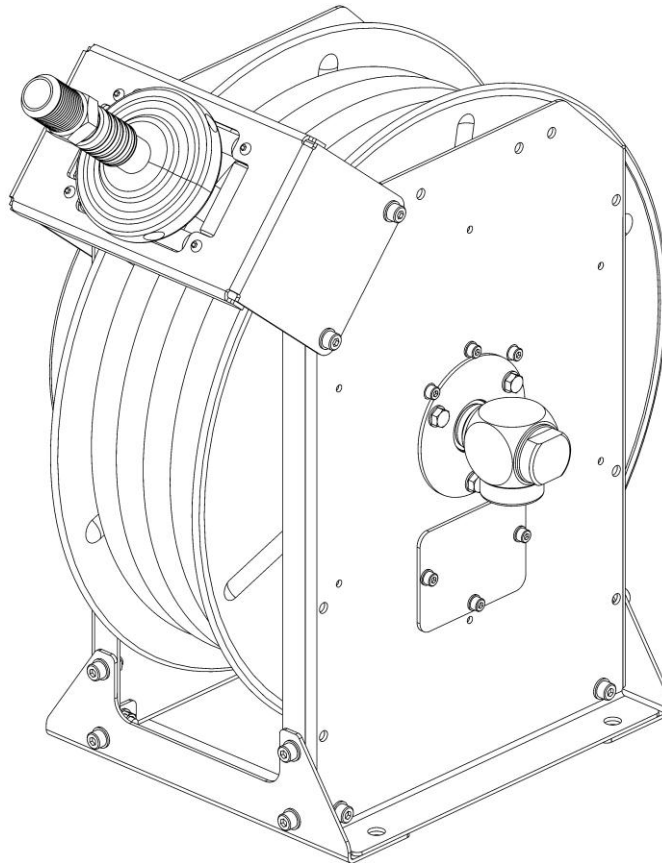
Instructions – Parts List – Service Manual

NS Series Hose Reel

Excluding NS200 Model

- Version C

November 2012



Suitable for dispensing, transfer and evacuation of lubricants, fuels, air & other automotive & industrial products. To be used in general industry mining & heavy earth moving applications.

Special Features include:

- Long hose length capacity
- High strength / ridged frame and drum
- Compact width & height
- Capable of handling high pressure

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List of NS Models

- This list excludes the NS200 Models

Model	Typical Application	Working Pressure Bare Hose Reel	Hose Length & Diameter
NS600-AWL-15/12-VC	<ul style="list-style-type: none"> • General Industry • Mining & Heavy Construction • Truck & Bus Servicing • Marine Service Applications 	220 Bar Max For Lube oils	¾" x 15m
NS600-AWL-30/08-VC	<ul style="list-style-type: none"> • General Industry • Mining & Heavy Construction • Truck & Bus Servicing • Marine Service Applications 	220 Bar Max For Lube oils	¾" x 30m ½" x 30m
NS600-HPG-25/06-VC	<ul style="list-style-type: none"> • General Industry • Mining & Heavy Construction • Truck & Bus Servicing • Marine Service Applications 	400 Bar Max For Grease	¾" x 25m ½" x 25m
NS800-LDF-15/16-VC	<ul style="list-style-type: none"> • General Industry • Mining & Heavy Construction • Truck & Bus Servicing • Marine Service Applications 	100 Bar Max For Lube Oils / Fuel Evacuation	1" x 15m
NS800-HD-15/16-VC	<ul style="list-style-type: none"> • General Industry • Mining & Heavy Construction • Truck & Bus Servicing • Marine Service Applications 	100 Bar Max For Lube Oils / Fuel Evacuation	1" x 15m
NS1000-LDF-25/16-VC	<ul style="list-style-type: none"> • General Industry • Mining & Heavy Construction • Truck & Bus Servicing • Marine Service Applications 	100 Bar Max For Lube Oils / Fuel Evacuation	1" x 25m ¾" x 25m
NS1500-LDF-12/20-BVC	<ul style="list-style-type: none"> • General Industry • Mining & Heavy Construction • Truck & Bus Servicing • Marine Service Applications 	100 Bar Max For Lube Oils / Fuel Evacuation	1 1/4" X 12m
NS1800-LDF-15/24-BVC	<ul style="list-style-type: none"> • General Industry • Mining & Heavy Construction • Truck & Bus Servicing • Marine Service Applications 	100 Bar Max For Lube Oils / Fuel Evacuation	1 ½" X 15m

- Note:
1. All hose reel lengths stated include "hose hang down".
 2. All hose reel capabilities are based on using the hose specified.
 3. In some applications the retract ability will be effected when exceeding certain pressures or when different fluids are being transferred. In some cases the hose might need to be "walked in" to ensure retraction.

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Warning

- This equipment contains “Stored Energy”. Stored energy can cause injury & death if not handled in the correct and safe manner & with care.
- Read all instructions before operating equipment
- Use equipment within specified working range – pressure & hose lengths
- Use only with products compatible with flow path components
- If hose is fitted to equipment follow the instructions as detailed in this document
- Ensure all pressure is released from the hose reel before working on the reel or hose.
- Check that hose reel is suitably mounted before commencing with hose payout
- Only qualified personnel to handle this equipment

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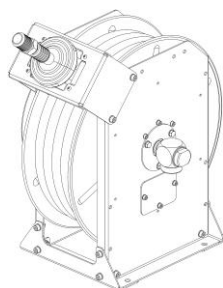


Warning

Never allow the hose reel drum to spin freely under spring tension, this could cause damage to the hose reel and cause serious injury or death.

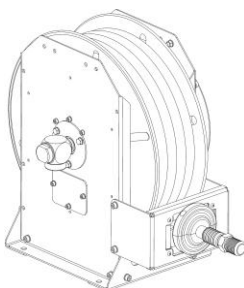
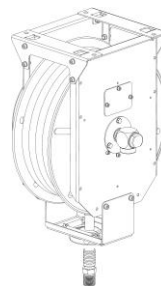
Hose Guide Positioning:

The N.S. Series of hose reels (Version C) referred to in this document are able to be mounted in various positions to suit working applications. The hose guides need to be repositioned to suit the different mounting – see illustrations below.



Position A: Floor / Upright Mounting

Position B: Ceiling / Inverted Mounting



Position C: Rear Payout / Mid Level Mounting

Instructions to fit or reposition hose guide:-

- Ensure that the hose reel is always mounted securely before working with it.
- If the hose reel is not fitted with hose ensure the hose reel drum is not under spring tension – proceed by removing the hose guide
- If the hose reel is fitted with hose - latch the hose reel drum and fit a clamp to the drum sheath while hose is wrapped onto the drum. Remove the hose stop from the hose release all the tension from the drum. Carefully hold the hose on the drum.
- Remove the hose guide from the hose reel by loosening the four hex securing bolts.
- Attach the hose guide to the hose reel in the required position (see illustration) using the allocated holes.
- Replace the pre tension to the hose reel drum $\pm 2 / 3$ Turns.
- Reroute the hose through the hose guide as shown in the illustration.
- Replace the hose stop and unlatch the drum

Note: Always ensure that the reel does not “Lock Out” on full hose payout – see details pg “Lockout”

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Warning

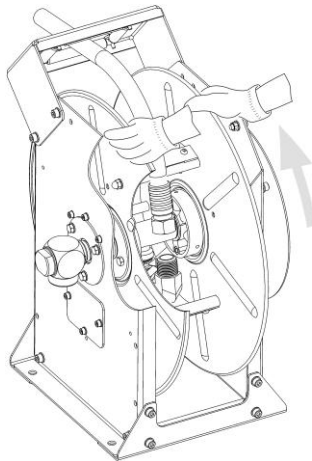
To avoid injury ensure that you always wear non slip heavy duty gloves when installing hose on a hose reel.

Hose Installation:

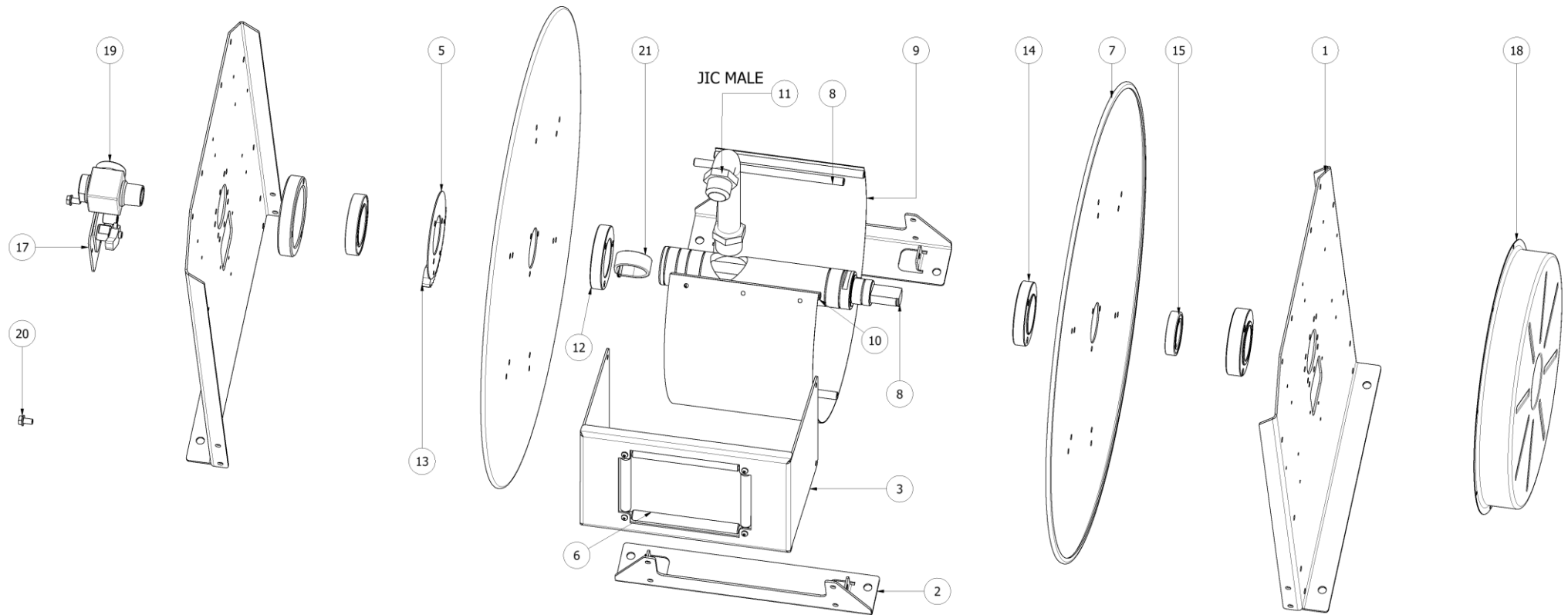
Note: It is extremely important to install hose on a hose reel with the correct amount of spring tension:-

- Ensure the hose reel is secured to a firm level surface
- Remove all the spring tension from hose reel drum
- Mark the drum with tape to easily control rotations.
- Rotate the drum in the direction of the arrow until the spring is firm. Latch the drum on the ratchet & fit the g-clamp as shown.
- Place the hose to be fitted in a straight line in front of the hose reel.
- Attach the hose to the fitting in the centre of the hose reel drum.
- Use the p-clamp in the centre of the drum to ensure the hose is indexed correctly to the ratchet. This means that when the hose is completely paid out the ratchet should not be latched. The centre drum has one P Clamp.
- Remove the G-clamp from the drum & release the ratchet to allow the spring to retract the hose.
- After fitment of the hose to the reel test the tension on the drum. Too much tension on the drum will cause the drum to "Lock Up" before all the hose has been retracted from the reel. If this happens remove tension from the drum by rerouting the hose from the hose guide & "relaxing" the drum by the required number of turns. If the spring tension is insufficient and does not retract all the hose, the hose should be rerouted out the hose guide & tension should be added to the drum.
- After the hose tension has been adjusted & tested the hose stop should be fitted in the appropriate place on the hose. The length of hose left outside of the hose reel should be suitable for the mounting application and the operator should be able to reach the dispensing valve with ease & safety.

Note: Do not force the drum in the direction of tension when pre tensioning the reel as this may damage the power spring.



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NS600-AWL-15/12-0B-VC
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	09-NS600-SP-0B	NS600 SIDE PLATE-BLUE	2
2	09-NSC00-BB-0B-275	NS SERIES BASE BRACKET 275 BLUE	2
3	09-NSC00-RBKC-0B	NS SERIES ROLLER BRACKET COMPLETE	1
4	09-B001-BP	BEARING PLATE	1
5	09-NSC00-RSP-OB-VC	RATCHET SUPPORT PLATE	1
6	09-NSC00-RA-1B	NS600 ROLLER ASSEMBLY KIT	1
7	09-NS600-DS-0B	NS600 DRUM SIDE - BLUE	2
8	09-NS600-SFT-OP-STD	NS600 REEL SHAFT STD 3/4"	1
9	09-NS600-CBS-0B	NS600 CENTRE BAND STEEL	1
10	09-NSC00-CBC-140-VC	NS600 CENTRE BAND CLAMPS-VC	1
11	09-12-GN-OB	-12 JIC (1 1/16") MALE GOOSE NECK	1
12	09-NSC00-DB-1B	NS DRUM BOSS BLACK NYLON	2
13	09-NSC00-RTC-VC-0P	SERIES RATCHET PLATED –VERSION C	1
14	09-NSC00-BB-1B	NS BEARING BOSS - BLACK NYL	2
15	09-NSC00-B-40	2RS BEARING	2
16	09-NSC00-SPD-00	NS SERIES SPIDER & SPACERS	3
17	09-NSC-PRA-VC	PAWL REPLACEMENT ASSEMBLY	1
18	09-NS600-SPBXCAN-0B-STD	NS600 SPRING BOX CANISTER - BLUE	1
19	09-111-2063	HST 3/4" SWIVEL	1
20	09-600.15/12-FK-VC	FASTNER KIT VERSION C 15/12	1
21	09-PCL36MM	P CLAMP 36MM	1

NS600-AWL-30/08-0B-VC
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	09-NS600-30-OB	NS600 SIDE PLATE-BLUE	2
2	09-NSC00-BB-0B-275	NS SERIES BASE BRACKET 275 BLUE	2
3	09-NSC00-RBKC-0B	NS SERIES ROLLER BRACKET - BLUE	1
4	09-B001-BP	BEARING PLATE	1
5	09-NSC00-RSP-OB-VC	RATCHET SUPPORT PLATE	1
6	09-NSC00-RA-1B	NS600 ROLLER ASSEMBLY KIT	1
7	09-NS600-DS-0B	NS600 DRUM SIDE - BLUE	2
8	09-NS600-SFT-VC-0P	NS600 REEL SHAFT 3/4" VERSION C	1
9	09-NS600-CBS-0B	NS600 CENTRE BAND STEEL	1
10	09-NSC00-CBC-140-VC	NS600 CENTRE BAND CLAMPS-VC	1
11	09-12-GN-OB	-12 JIC (1 1/16") MALE GOOSENECK	1
12	09-NSC00-DB-1B	NS DRUM BOSS BLACK NYLON	2
13	09-NSC00-RTC-0P-VC	SERIES RATCHET PLATED –VERSION C	1
14	09-NSC00-BB-1B	NS BEARING BOSS - BLACK NYL	2
15	09-NSC00-B-40	2RS BEARING	2
16	09-NSC00-SPD-00	NS SERIES SPIDER & SPACERS	3
17	09-NSC-PRA-VC	PAWL REPLACEMENT ASSEMBLY	1
18	09-NS600-SPBXCAN-0B-30	NS600 SPRING BOX CANISTER – BLUE-30	1
19	09-111-2063	HST 3/4" SWIVEL	1
20	09-600.15/12-FK-VC	FASTNER KIT VERSION C 15/12	1
21	09-PCL36MM	P CLAMP 36MM	1

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NS600-HPG-25/06-0B-VC
PARTS LIST – REFER EXPLODED VIEW

c	Part number	Description	Qty per reel
1	09-NS600-30-OB	NS600 SIDE PLATE-BLUE	2
2	09-NSC00-BB-0B-275	NS SERIES BASE BRACKET 275 BLUE	2
3	09-NSC00-RBKC-0B	NS SERIES ROLLER BRACKET - BLUE	1
4	09-B001-BP	BEARING PLATE	1
5	09-NSC00-RSP-OB-VC	RATCHET SUPPORT PLATE	1
6	09-NSC00-RA-1B	NS600 ROLLER ASSEMBLY KIT	1
7	09-NS600-DS-0B	NS600 DRUM SIDE - BLUE	2
8	09-NS600-SFT-0P-1G	NS600 ½" SHAFT GREASE	1
9	09-NS600-CBS/H-0B	Centre Band Steel	1
10	09-NSC00-CBC-140-VC	NS600 CENTRE BAND CLAMPS-VC	1
11	09-0608-CTX-S	-6 (9/16) JIC MALE FITTING ½" NPT 90°	1
12	09-NSC00-DB-1B	NS DRUM BOSS BLACK NYLON	2
13	09-NSC00-RTC-0P-VC	SERIES RATCHET PLATED –VERSION C	1
14	09-NSC00-BB-1B	NS BEARING BOSS - BLACK NYL	2
15	09-NSC00-B-40	2RS BEARING	2
16	09-NSC00-SPD-00	NS SERIES SPIDER & SPACERS	3
17	09-NSC-PRA-VC	PAWL REPLACEMENT ASSEMBLY	1
18	09-NS600-SPBXCAN-0B-STD	NS600 SPRING BOX CANISTER BLUE-STD	1
19	09-9SS8MP50XFP50	GREASE SWIVEL - SS	1
20	09-600.15/12-FK-VC	FASTNER KIT VERSION C 15/12	1
21	09-PCL28MM	P CLAMP 28MM	1

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NS800-LDF-15/16-0B-VC
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	09-NS800-SP-OB	NS800 SIDE PLATE-BLUE	2
2	09-NSC00-BB-0B-275	NS SERIES BASE BRACKET 275 BLUE	2
3	09-NS800-RBKC-0B	NS SERIES ROLLER BRACKET - BLUE	1
4	09-B001-BP	BEARING PLATE	1
5	09-NSC00-RSP-OB-VC	RATCHET SUPPORT PLATE	1
6	09-NS800-RA-1B	NS800 ROLLER ASSEMBLY KIT	1
7	09-NS800-DS-0B	NS800 DRUM SIDE - BLUE	2
8	09-NS-800-SFT-VC-OP	NS800 SHAFT 1' PLATED	1
9	09-NS700-CBS-0B	NS700 Centre Band Steel	1
10	09-NSC00-CBC-140-VC	NS600 CENTRE BAND CLAMPS-VC	1
11	09-16-GN-1P	-16 JIC (15/16") MALE GOOSE NECK	1
12	09-NSC00-DB-1B	NS DRUM BOSS BLACK NYLON	2
13	09-NSC00-RTC-0P-VC	SERIES RATCHET PLATED –VERSION C	1
14	09-NSC00-BB-1B	NS BEARING BOSS - BLACK NYL	2
15	09-NSC00-B-40	2RS BEARING	2
16	09-NSC00-SPD-00	NS SERIES SPIDER & SPACERS	3
17	09-NSC-PRA-VC	PAWL REPLACEMENT ASSEMBLY	1
18	09-NS800-SPBXCAN-0B-STD	NS800 SPRING BOX CANISTER BLUE-STD	1
19	09-111-2064	HST 1" SWIVEL	1
20	09-800-15/12-FK-VC	FASTNER KIT VERSION C 15/16	1
21	09-PCL36MM	P CLAMP 36MM	1

NS800-HD- LDF-15/16-0B-VC
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	09-NS800-OB-VC	NS800 SIDE PLATE-BLUE	2
2	09-NSC00-BB-0B-275	NS SERIES BASE BRACKET 275 BLUE	2
3	09-NSC00-RBKC-0B	NS600 ROLLER BRACKET - BLUE	1
4	09-B001-BP	BEARING PLATE	1
5	09-NSC00-RSP-OB-VC	RATCHET SUPPORT PLATE	1
6	09-NSC00-RA-1B	NS600 ROLLER ASSEMBLY KIT	1
7	09-NS800-DS-0B	NS8000 DRUM SIDE - BLUE	2
8	09-NS800-SFT-VC-OP	NS800 SHAFT 1"	1
9	NS700-CBS-0B	NS700 Centre Band Steel	1
10	09-NSC00-CBC-140-VC	NS600 CENTRE BAND CLAMPS-VC	1
11	09-16-GN-1P	-16 JIC (15/16") MALE GOOSE NECK	1
12	09-NSC00-DB-1B	NS DRUM BOSS BLACK NYLON	2
13	09-NSC00-RTC-0P-VC	SERIES RATCHET PLATED –VERSION C	1
14	09-NSC00-BB-1B	NS BEARING BOSS - BLACK NYL	2
15	09-NSC00-B-40	2RS BEARING	2
16	09-NSC00-SPD-00	NS SERIES SPIDER & SPACERS	3
17	09-NSC-PRA-VC	PAWL REPLACEMENT ASSEMBLY	1
18	09-NS1500-SPBXCAN-0B-STD	NS1500 SPRING BOX CANISTER BLUE-STD	1
19	09-111-2064	HST 1" SWIVEL	1
20	09-800-15/16-FK-VC	FASTNER KIT VERSION C 15/16	1
21	09-PCL36MM	P CLAMP 36MM	1

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NS1000-LDF-25/16-0B-VC
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	09-NS1000-SP-OB-VC	NS1000 SIDE PLATE-BLUE	2
2	09-NSC00-BB-0B-375	NS SERIES BASE BRACKET 375 BLUE	2
3	09-NS1510-RBKC-0B-VC	NS1000 ROLLER BRACKET BLUE VERSION C	1
4	09-B001-BP	BEARING PLATE	1
5	09-NSC00-RMP-OB-VC	RATCHET MOUNTING PLATE	1
6	09-NS1510-RA-1B	ROLLER ASSEMBLY KIT	1
7	09-NS1000-DS-0B	NS1000 DRUM SIDE - BLUE	2
8	09-NS1000-SFT-OP	NS1000 SHAFT 1"	1
9	09-NS1500-CBS-0B	NS1500 Centre Band Steel	1
10	09-NSC00-CBC-235-VC	NS600 CENTRE BAND CLAMPS-VC	1
11	09-16-GN-1P	-16 JIC (15/16") MALE GOOSE NECK	1
12	09-NSC00-DB-1B	NS DRUM BOSS BLACK NYLON	2
13	09-NSC00-RTC-0P-VC	SERIES RATCHET PLATED –VERSION C	1
14	09-NSC00-BB-1B	NS BEARING BOSS - BLACK NYL	2
15	09-NSC00-B-40	2RS BEARING	2
16	09-NSC00-SPD-00	NS SERIES SPIDER & SPACERS	3
17	09-NSC-PRA-VC-25	PAWL REPLACEMENT ASSEMBLY-25	1
18	09-NS1500-SPBXCAN-0B	NS1500 SPRING BOX CANISTER BLUE	1
19	09-111-2064	HST 1" SWIVEL	1
20	09-1000-15/16-FK-VC	FASTNER KIT VERSION C 15/16	1
21	09-PCL36MM	P CLAMP 36MM	1

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NS1500-LDF-12/20-0B-VC
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	09-NS1510-SP-OB-VC	NS1500 SIDE PLATE-BLUE	2
2	09-NSC00-BB-0B-375	NS SERIES BASE BRACKET 375 BLUE	2
3	09-NS1510-RBKC-0B-VC	NS1500 ROLLER BRACKET BLUE VERSION C	1
4	09-B001-BP	BEARING PLATE	1
5	09-NSC00-RMP-OB-VC	RATCHET MOUNTING PLATE	1
6	09-NSC00-RA-1B	NS800 ROLLER ASSEMBLY KIT	1
7	09-NS1500-DS-0B	NS1500 DRUM SIDE - BLUE	2
8	09-NS1500-SFT-VC-OP	NS1500 SHAFT 1 1/4"	1
9	09-NS1500-CBS-0B	NS1500 Centre Band Steel	1
10	09-NSC00-CBC-235-VC	NS1500 CENTRE BAND CLAMPS-VC	1
11	09-NS20-GN-REV1	-20 JIC (15/8") MALE GOOSE NECK	1
12	09-NSC00-DB-1B	NS DRUM BOSS BLACK NYLON	2
13	09-NSC00-RTC-0P-VC	SERIES RATCHET PLATED –VERSION C	1
14	09-NS1500-BB-0P	NS1500 BEARING BOSS	2
15	09-NSC00-B-40	2RS BEARING	2
16	09-NSC00-SPD-00	NS SERIES SPIDER & SPACERS	3
17	09-NSC-PRA-VC-25	PAWL REPLACEMENT ASSEMBLY-25	1
18	09-NS1500-SPBXCAN-0B	NS1500 SPRING BOX CANISTER BLUE	1
19	09-111-2065	HST 1 1/4" SWIVEL	1
20	09-1000-15/16-FK-VC	FASTNER KIT VERSION C NS1500	1
21	09-PCL43MM	P CLAMP 43MM	1

NS1800-LDF-15/24-0B-VC
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	09-NS1800-SP-0B	SIDE PLATE NS1800 BLUE	1
2	09-NSC00-BB-0B-375	NS SERIES BASE BRACKET -375	2
3	09-DC700-RBKC-0B	ROLLER BRACKET COMPETE DC700	1
4	09-B001-BP	BEARING PLATE	1
5	09-NSC00-RMP-OB-VC	RATCHET MOUNTING PLATE	1
6	09-NS1800-RA-1B	NS1800 ROLLER ASSEMBLY KIT	1
7	09-NS1800-DS-0B	DRUM SIDE NS1800 BLUE	2
8	09-NS1800-SFT-0P	SHAFT SPRING RETRACTABLE 1 1/2" NS1800	1
9	09-NS1800-CBS-0B	CENTRE BAND STEEL BLUE NS1800	2
10	09-NSC00-CBC-235-VC	NS1500 CENTRE BAND CLAMP	2
11	09-NS24-GN-REV1	-24 JIC (17/8") MALE GOOSE NECK	1
12	09-NS1500-DB-0P	NS1500 DRUM BOSS STEEL PLATED	2
13	09-NSC00-RT2-0P	RATCHET 12mm STEEL VERSION C	1
14	09-NS1500-BB-0P	NS1500 BEARING BOSS STEEL PLAT	1
15	09-NSC00-B-40	C6008-2RS BEARING 40mm	1
16	NSC00-SPD-00	NS SERIES SPIDER	3
17	09-NSC-PRA-VC-25	PAWL REPLACEMENT ASSEMBLY -25	1
18	09-NS1800-SPBXCAN-0B	NS1800 SPRING BOX CANISTER BLUE	1
19	09-111-2066	1 1/2"Oil Swivel/Diesel	1
20	09-NS1800-FK-ZP	NS1800 FASTENER KIT	1
21	09-PCL50MM	P CLAMP MM	1

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Dimensions

Refer Drawing Pg 14

NS600-AWL-15/12-0B-VC

A	250mm
B	275mm
C	340mm
D	305mm
E	365mm
F	585mm
G	285mm
H	505mm

NS600-AWL-30/08-0B-VC

A	370mm
B	275mm
C	462mm
D	305mm
E	375mm
F	585mm
G	285mm
H	505mm

NS600-HPG-25/06-0B-VC

A	370mm
B	275mm
C	462mm
D	305mm
E	375mm
F	585mm
G	285mm
H	505mm

NS800-LDF-15/16-0B-VC

A	250mm
B	275mm
C	340mm
D	305mm
E	365mm
F	660mm
G	340mm
H	605mm

NS800-HD-LDF-15/16-0B-VC

A	370mm
B	275mm
C	462mm
D	405mm
E	430mm
F	660mm
G	340mm
H	605mm

NS1000-LDF-25/16-0B-VC

A	370mm
B	375mm
C	462mm
D	405mm
E	470mm
F	660mm
G	340mm
H	605mm

NS1500-LDF-12/20-0B-VC

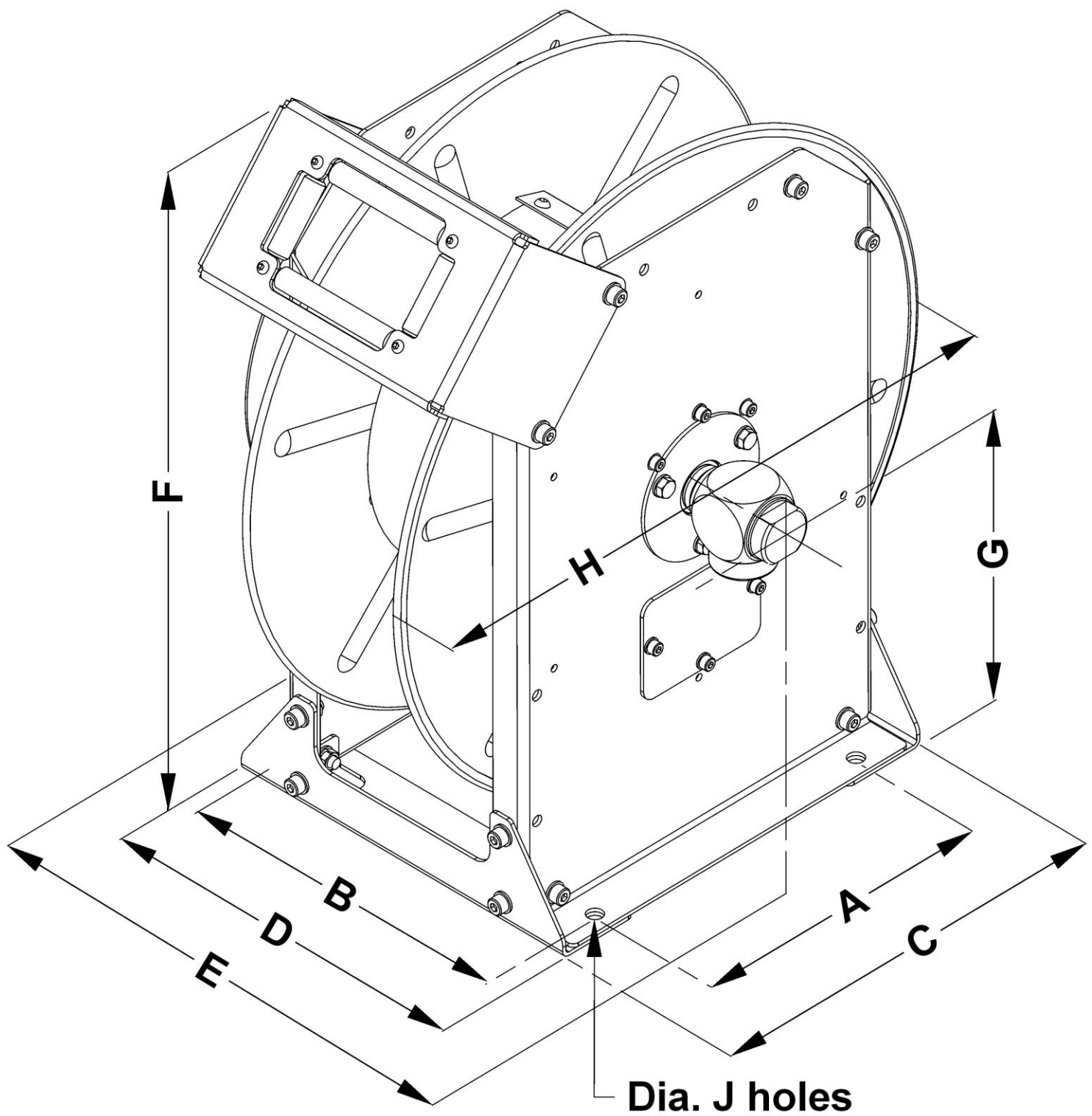
A	370mm
B	377mm
C	462mm
D	405mm
E	470mm
F	690mm
G	340mm
H	605mm

NS1800-LDF-15/24-0B-VC

A	370mm
B	377mm
C	462mm
D	405mm
E	502mm
F	747mm
G	423mm
H	750mm

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VERSION C



Service & Maintenance

Swivel:



Warning – relieve all pressure from the hose reel before working on the equipment.

- All models in this range have removable swivels
- If the swivel needs replacing or repairing – i.e. leaking or seized up, the following procedure must be followed:-
 - Unscrew the swivel from the hose reel shaft by using a wrench on the two flats located on the rear of the swivel spindle
 - With non-slip gloves hold the drum of the hose reel & loosen & unscrew the swivel.
 - Replace the swivel with new swivel if necessary & screw back by holding the drum of the hose reel.

Spring Canister:



Warning the spring canister should never be opened or worked on.

The spring canister contains stored energy & may cause injury or death.

- To remove or replace the spring canister – ensure all the tension is removed from the spring motor.
- Remove the nuts which secure the spring canister to the side plate – see exploded view.
- Remove the spring canister as a unit – discard safely as a unit.
- The new canister will have a pre-formed spring – push the spring canister over the spiders on the end of the shaft and ensure the canister locates which are the studs on the side plate, secure with the securing nuts onto the side plate.
- Rotate the reel as per the arrow and the instruction to TENSION the hose reel.

Hose Reel Ratchet Assembly – Version C

Note: - The ratchet assembly on the NS Version C has been adapted substantially. The Fundamental change is that the pawl and spring is now located on the removable service plate and the ratchet plate is located on the hose reel drum.

Hose Reel Drum Warning:



Warning the hose reel drum should never be allowed to spin out of control by spring power – bodily injury & damage to the hose reel could occur.

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A. Replace the Pawl – Version C



Ensure all the tension is removed from the spring.

- Remove the inspection cover (5 on the exploded view) – three cap screws – see exploded view
- The pawl & spring is located on the service plate.
- Remove the circlip from the pawl pin & slide the pawl (17 on the exploded view) off the pawl pin – the part 17 may be used as a replacement unit for the assembly.
- Unlatch the pawl from the pawl spring
- Wipe the pawl pin with a cloth & re-assemble with a new pawl

Note:- No lubrication is required on the NS Version “B” pawl pin – this pawl is supported with bearings.

B. Replace Ratchet Plate – Version C



Ensure that all the spring tension is removed from the hose reel.
The hose may need to be removed to replace the ratchet plate.

- The ratchet plate 13 + ratchet support plate is mounted on the hose reel drum on the NS Version C.
- Turn the hose reel drum to the goose neck opening
- Loosen the shaft flange bolts and remove the ratchet and ratchet support plate
- Replace the ratchet, ratchet support & secure with the 3 shaft flange bolts.

Note:- The ratchet plate must be installed with the ratchet teeth facing the correct way.

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Trouble Shooting Guide



Warning – relieve all pressure from the hose reel before working on the equipment.

Diagnosis	Likely Cause	Solution
Hose does not retract fully	Insufficient spring tension	Adjust spring tension by adding wraps of hose. Pull out approximately 2 meters of hose and latch, hand feed hose back up through the roller bracket assembly. Add two or three wraps until the desired tension is achieved. Do not exceed spring capacity.
Hose does not retract at all	Product supply piped to connect to swivel is not a flexible hose.	When a flexible connection hose to the swivel is not used excessive pressure is exerted on the shaft and bearing causing reel to bind. This will also void the warranty.
	Broken main spring	Fit new spring box assembly. Caution should be used to not split the spring box canister.
Reel does not latch	Broken pawl spring or damaged/bend pawl pin	Replace with new pawl pin assembly
Swivel leak	Ware & Tear	Replace damaged part

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